

# Summary of Facilities Features of Prototype Micro Server Farms

## 1) Minimum Requirements:

- a) Area Required:
  - i) Server farm and equipment room remote from station demark: 715 SF (nominally 28' x 25'-6")
  - ii) Server farm, equipment room, and station demark co-located: 880 SF
  - iii) Server farm with detached equipment room: 600 SF server farm and 200 SF equipment room
  - iv) Area may have to be expanded if:
    - (1) The space provided includes large obstructions such as columns, and stairwells
    - (2) The space provided is not roughly square, preventing efficient use of space for installation of NMCI equipment
- b) Heat and ventilation
- c) Slab to ceiling clearance of 10' minimum
- d) Ability to locate HVAC condensers on ground or roof within 150' of the farm
- e) Free from roof leaks
- f) Electrical requirements:
  - i) Transformer information to be provided as soon as possible
  - ii) New transformers will be installed a maximum of 10' from the building and reasonably close to the Server Farm if sufficient power is not currently available in the building
  - iii) EDS responsible for running power to the server farm from the secondary side of the transformer.
- g) Structure shall have reasonable structural integrity with no apparent structural deficiencies. Any reinforcing required to bring the structure up to current seismic protection levels will be provided by EDS
- h) Building shall be lockable from the exterior. Any required intrusion protection upgrades to make the space acceptable for secure information shall be provided by EDS
- i) Floor loading capacity of 150 pounds per square foot
- j) Asbestos: EDS shall provide detailed plans indicating areas of ACM or suspected ACM that may be disturbed 30 days prior to start of construction. The Government will either remediate the entire area, or remediate specific areas of ACM or suspected ACM, at it's option, to provide a safe working environment for the Contractor and the intended occupants.

## 2) Desired Features:

- a) Floor loading sufficient to support one 7' x 3' UPS systems weighing 7500 lbs each
- b) Slab on grade construction (at least for the mechanical room)
- c) Close to existing base fiber system
- d) Nearby water risers for HVAC make-up and fire suppression source
- e) Out of storm surge areas
- f) Access to building freight loading entrance
- g) Suspended ceiling and fluorescent lighting

## 3) Information on equipment to be provided by EDS:

- a) Two 20-ton upflow CRAC units
- b) One 80 kVA UPS systems